

F. A. PROJECT

NOTES

ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.

DESIGN FILL-----

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4"
OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL
HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE
STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE
OF THE FILL.

THIS BARREL STANDARD TO BE USED ONLY ON DOUBLE BARREL CULVERTS 8'
OR OVER IN VERTICAL CLEARANCE ON 135° SKEW AND TO BE USED WITH
STANDARD WING SHEET FOR THE SAME SKEW AND VERTICAL CLEARANCE.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL
EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL SPACED
TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL
BE SUBJECT TO APPROVAL OF THE ENGINEER.

STEEL IN THE BOTTOM SLAB MAY BE SPICED AT THE PERMITTED CONSTRUCTION
JOINT AT THE CONTRACTOR'S OPTION. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES
SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION, HE MAY SPlice THE VERTICAL REINFORCING STEEL
IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS
ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPlice LENGTH SHALL BE AS PROVIDED
IN THE SPlice LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE
TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL,
DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT
IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL
PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE
DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL
PROVISIONS.

LOCATION SKETCH

TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE	
BARREL @ _____ CY/FT	_____ C.Y.
WING ETC. _____	_____ C.Y.
TOTAL _____	_____ C.Y.
REINFORCING STEEL	
BARREL _____	_____ LBS.
WINGS ETC. _____	_____ LBS.
TOTAL _____	_____ LBS.

PROJECT NO. _____

_____ COUNTY

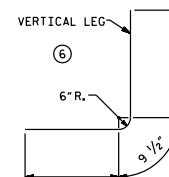
STATION: _____

SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
BARREL STANDARD
DOUBLE FT. X FT.
CONCRETE BOX CULVERT WITH
VERTICAL CLEARANCE OF
8 FT. OR MORE
AUGUST 135° SKEW 1990

REVISIONS				SHEET NO.
NO.	BY	DATE	NO.	
1			3	TOTAL SHEETS
2			4	

STD. NO. CB552A



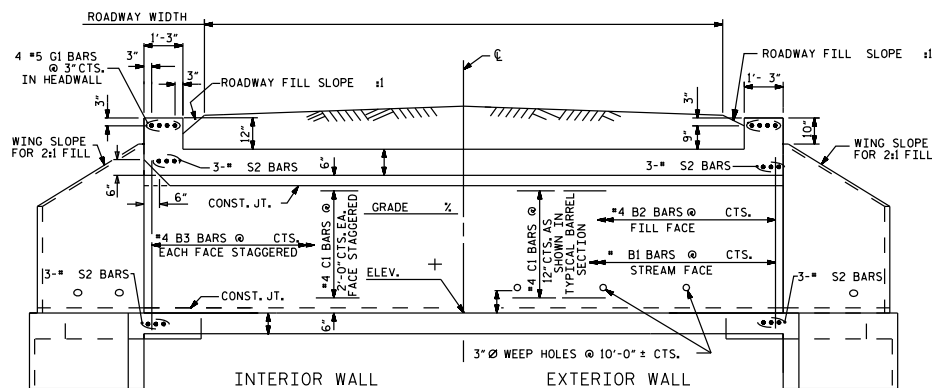
BAR TYPE

BAR DIMENSIONS ARE OUT TO OUT

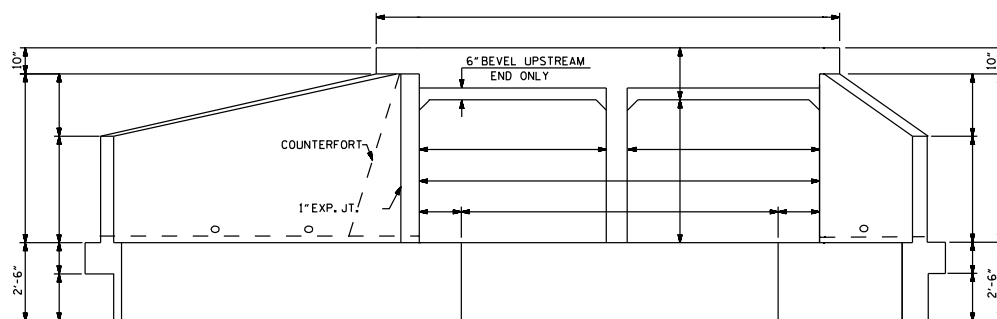
PROFILE ALONG CULVERT

ASSEMBLED BY : _____	DATE : _____	SPECIAL
CHECKED BY : _____	DATE : _____	
DRAWN BY : C.O. CUEVAS	DATE : 8-20-90	STANDARD
CHECKED BY : ELR	DATE : 10-3-90	

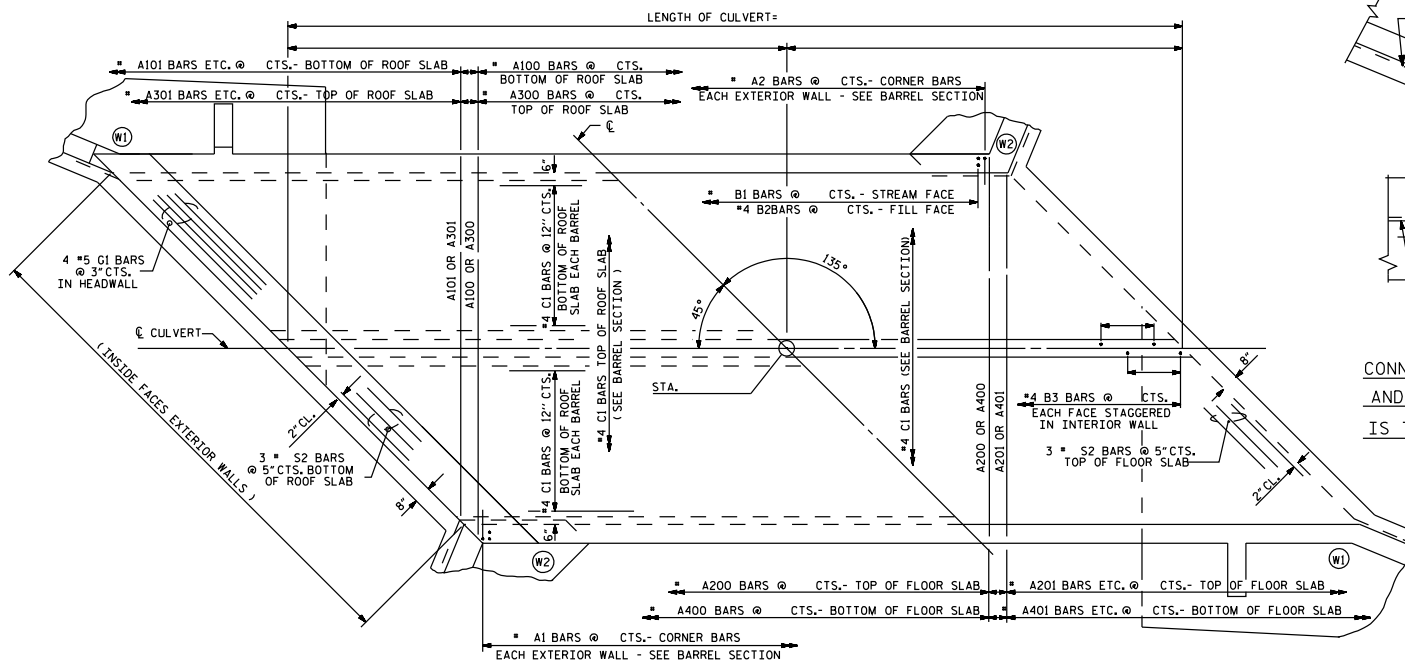
*****SYSTEM*****
*****USER*****



CULVERT SECTION NORMAL TO ROADWAY

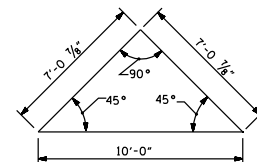
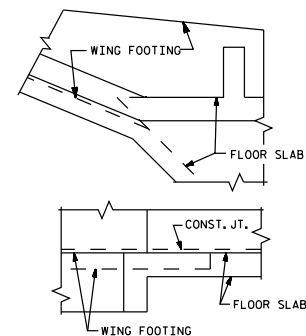


END ELEVATION NORMAL TO SKEW



PART PLAN - ROOF SLAB

PART PLAN - FLOOR SLAB



SKEW TRIANGLE

CONNECTION OF WING FOOTING
AND FLOOR SLAB WHEN SLAB
IS THICKER THAN FOOTING

PROJECT NO. _____
_____ COUNTY
STATION: _____
SHEET 2 OF 2

STATE OF NORTH CAROLINA
RALEIGH
DEPARTMENT OF TRANSPORTATION
BARREL STANDARD
DOUBLE FT. X FT.
CONCRETE BOX CULVERT WITH
VERTICAL CLEARANCE OF
8 FT. OR MORE
135° SKEW

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS
2			4			

STD. NO. CB552

REVISED 11-19-99 BY MAX CHECKED BY R.W.A.
REDAWN BY C.C. 11/99 CHECKED BY L.C. 10/99

ASSEMBLED BY : _____ DATE : _____
CHECKED BY : _____ DATE : _____
DRAWN BY : RALPH D. UNDERWOOD DATE : APR. 1972
CHECKED BY : HASON A. JUDEH DATE : 5-23-1972

SPECIAL
STANDARD